

Method and Apparatus for Integrating Virtual Environments
with Functional Simulations Via High Level Architecture

Abstract of the Disclosure:

A method of simulating the behavior of a user-
interactive environment, the method comprising: (a)
running a virtual environment (VE) simulation application
5 that (1) graphically depicts a VE, (2) receives input
from a user that corresponds to a user interaction with
the VE, and (3) provides graphical output to the user
that corresponds to a condition of the VE; (b) running a
functional simulation application that determines the
10 condition for the VE at least in part based upon the user
input; (c) communicating the user input received by the
VE simulation application to the functional simulation
application via a high level architecture (HLA) protocol;
and (d) communicating the condition determined by the
15 functional simulation application to the VE simulation
application via the HLA protocol.